

<!--StartFragment-->RESULT 6

LEG4_RAT

ID LEG4_RAT STANDARD; PRT; 324 AA.
AC P38552;
DT 01-OCT-1994, integrated into UniProtKB/Swiss-Prot.
DT 01-OCT-1994, sequence version 1.
DT 07-MAR-2006, entry version 42.
DE Galectin-4 (Lactose-binding lectin 4) (L-36 lactose-binding protein)
DE (L36LBP).
GN Name=Lgals4;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidea; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA].
RC TISSUE=Intestine;
RX MEDLINE=93194902; PubMed=8449956;
RA Oda Y., Herrmann J., Gitt M., Turck C.W., Burlingame A.L.,
RA Barondes S.H., Leffler H.;
RT "Soluble lactose-binding lectin from rat intestine with two different
RT carbohydrate-binding domains in the same peptide chain.";
RL J. Biol. Chem. 268:5929-5939(1993).
RN [2]
RP PROTEIN SEQUENCE OF 13-37 AND 44-66.
RX MEDLINE=95172227; PubMed=7867792; DOI=10.1016/0014-5793(95)00025-5;
RA Tardy F., Deviller P., Louisot P., Martin A.;
RT "Purification and characterization of the N-terminal domain of
RT galectin-4 from rat small intestine.";
RL FEBS Lett. 359:169-172(1995).
CC -!- FUNCTION: Galectin that binds lactose and a related range of
CC sugars.
CC -!- SUBUNIT: Monomer.
CC -!- TISSUE SPECIFICITY: Highly expressed in full-length form in small
CC and large intestine and stomach but was not detected in other
CC tissues including lung, liver, kidney and spleen.
CC -!- DOMAIN: Contains two homologous but distinct carbohydrate-binding
CC domains.
CC -!- SIMILARITY: Contains 2 galectin domains.
CC -----
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CC -----
DR EMBL; M73553; AAA41505.1; -; mRNA.
DR PIR; A46631; A46631.
DR HSSP; P47929; 1BKZ.
DR Ensembl; ENSRNOG00000020338; Rattus norvegicus.
DR RGD; 3003; Lgals4.
DR InterPro; IPR013320; ConA_like_subgrp.
DR InterPro; IPR001079; Galectin_bd.
DR Pfam; PF00337; Gal-bind_lectin; 2.
DR SMART; SM00276; GLECT; 2.
DR PROSITE; PS00309; GALAPTIN; 2.
KW Direct protein sequencing; Lectin; Repeat.
FT CHAIN 1 324 Galectin-4.
FT /FTId=PRO_0000076937.
FT DOMAIN 1 152 Galectin 1.
FT DOMAIN 178 324 Galectin 2.
FT REGION 153 177 Linker.
FT REGION 257 263 Beta-galactoside binding (By similarity).
SQ SEQUENCE 324 AA; 36347 MW; 478024D7322AFE7B CRC64;

Query Match 77.7%; Score 1367.5; DB 1; Length 324;
Best Local Similarity 76.6%; Pred. No. 2e-105;
Matches 249; Conservative 33; Mismatches 40; Indels 3; Gaps 2;

Qy 1 MAYVPAPGYQPTYNPTLPYYQPIPGGLNVGMSVYIQGVASEHMKRFFVNFVVGQDPGSDV 60
| | | | | | | | | | | | | | | | : | | | | | : | | | | | : | : | : | | | | | | | : | :
Db 1 MAYVPAPGYQPTYNPTLPYKRPIPGGLSVGMSIYIQGIAKDNMRRFHVNFVAVGQDEGADI 60

Qy 61 AFHFNPRFDGWDKVVFNLTQGGKWGSEERKRSMPFKKGAAFELVFIVLAEHYKVVVNGNP 120
| | | | | | | | | | | | | | | | : | : | | | : | | | : | | | | | | | | | | | | | |
Db 61 AFHFNPRFDGWDKVVFNLTQSGQWGKEEKKSMPPFQKGHHFELVFMVMSEHYKVVVNGTP 120

Qy 121 FYEYGHRLPLQMVTHLQVDGDLQLQSINFIGGQPLRPQGPMM--PPYPGPGHCHQQLNS 178
| | | | | | | | | | | | | | | | : | | | | | : | | | | | | | | | | | : | : | |
Db 121 FYEYGHRLPLQMVTHLQVDGDLQLQSINFLGGQPAASQYPGTMTIPAYPSAGYNPPQMNS 180

Qy 179 LPTMEGPPTFNPPVPYFGRLQGGLTARRTIIIKGYVPPTGKSFAINFKVGSSGDIALHIN 238
| | | | | | | | | | | | | | | | | | | | | | : | | | | | : | | | | | : | : | |
Db 181 LPVMAGPPIFNPPVPYVGTQGGTLARRTIIIKGYVLPTAKNLIINFKVGSTGDIAFHMN 240

Qy 239 PRMGNGTVVRNSLLNGSWGSEEEKITHNPFPGQFFDLSIRCGLDRFKVYANGQHLFDFA 298
| | : | : | | | | | : | | | | | | : | | | | | | | | | | | | | | | | : | | | | | :
Db 241 PRIGD-CVVRNSYMNGSWGSEERKIPYNPFGAGQFFDLSIRCGTDRFKVFANGQHLFDFS 299

Qy 299 HRLSAFQRVDTLEIQGDVTLSYVQI 323
| | | | | | | | | | : | : | | | | | | | |
Db 300 HRFQAFQRVDMLEIKGDITLSYVQI 324

<!--EndFragment-->

Art Unit: 1642

90% IDENTITY/ BINDS TO SEQ ID NO:16 – THUS, GIVEN THE CROSS-REACTIVITY OF POLYCLONALS IF YOU HAVE ANYTHING WITH BETTER THAT 5 OR 6 CONTIGUOUS AMINO ACIDS, ITS OBVIOUS TO MAKE ANTIBODIES TO IT BECAUSE THE COURTS SAY SO, I ASSUME YOU HAVE THE FORM PARAGRAPH, FURTHER, CROSS REACTIVITY IS WELL KNOWN IN THE ART AND IT WOULD BE EXPECTED THAT AT LEAST A SUBSET OF THE POLYCLONALS PRODUCED WOULD BE ANTIBODIES THAT BIND TO RESIDUES OF SEQ ID NO:6 YADA YADA YADA

YOU CAN FIND A BETTER 102, I LOOKED FOR 2 MINUTES IN SCORE – FOUND THE FOLLOWING FROM YOUR 2ND SEQ ID NO:16 LIST – THIS IS ONLY A 102(A) BUT RESEND THE SEARCH – RUSH TO CHRISTINE CHAN AND ASK FOR THE FULL PRINT-OUT FOR SEQ ID NO:16 OF THE FIRST 50 HITS – AND LOOK FOR A GOOD ENOUGH DATE TO DO A 102(B) ASK HER TO MAKE AN EXTREME RUSH BECAUSE ITS DUE THIS BIWEEK – EMAIL MARY HALE AND ASK HER TO LOOK OUT FOR IT AND THAT IT'S A POLYPEPTIDE AND ASK HOW LONG THE QUE IS AND IF YOU CAN PICK IT UP FROM THE LIBRARY BEFORE IT GETS TO SCORE.

RESULT 6LEG4_RATID LEG4_RAT STANDARD: PRT: 324 AA.AC P38552: